

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	177	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/03 20:28
L3	108	L2 and @ad<"20031125"	US-PGPUB; USPAT; USOOCR	OR	ON	2009/11/03 20:28
S1	1	"10580324"	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:27
S2	2	"6106245".PN.	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:30
S3	2	"6032923".pn.	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:41
S4	2	"5367878".pn.	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:42
S5	10	("5367878" "5705018" "6007309" "6032923" "6106245").PN.	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 17:10

S6	69	("3381623" "3803424" "4115036" "4453169" "4498850" "4938742" "5078581" "5096388" "5176358" "5180288" "5192197" "5499909" "5725363" "5759014" "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:17
S7	80	("2403692" "2975307" "3304446" "3381623" "3414010" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4418886" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4581624" "4651564" "4654546" "4722360" "4756508" "4821999" "4898200" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5206557" "5219278" "5224843" "5244527" "5244537" "5322258" "5323999" "5325880" "5441597" "5452878" "5499909" "5541465" "5552654" "5571401" "5642015" "5683159" "5725363" "5759014" "5759015" "5822170" "5836750" "5863708" "5901939" "5911872" "5954079" "6106245" "6179586" "6182941" "6184607" "6192197" "6215221" "6240944" "6288472").PN. OR ("6968862").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:24
S8	521	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:38

S9	35	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:39
S10	81	("20020067992" "2403692" "2975307" "3304446" "3381623" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4651564" "4654546" "4756508" "4821999" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5192197" "5206557" "5219278" "5224843" "5244527" "5244537" "5322258" "5323999" "5441597" "5452878" "5499909" "5541465" "5542821" "5552654" "5571401" "5642015" "5683159" "5725363" "5759014" "5759015" "5836750" "5863708" "5901939" "5911872" "6106245" "6179586" "6184607" "6215221" "6450773" "6508528" "6520753" "6579068").PN. OR ("6767190").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 18:23
S11	44	(micropump or micro-pump or mesopump or meso-pump or microvalve or micro-valve) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 18:31

S12	810	STmicroelectronics.asn. and pump	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:50
S13	728	STmicroelectronics.asn. and pump and voltage	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S14	164	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S15	1725	417/53.ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2008/10/25 19:51
S16	1710	257/706.ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2008/10/25 19:52
S17	378	257/e21.495.ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2008/10/25 19:52
S18	584	257/e23.08.ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2008/10/25 19:53
S19	84	{"20020067992" "2403692" "2975307" "3304446" "3381623" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4651564" "4654546" "4756508" "4821999" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5192197" "5206557" "5219278" "5224843" "5244527" "5244537" "5322258" "5323999" "5441597" "5452878" "5499909" "5541465" "5542821" "5552654" "5571401" "5642015" "5683159"	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/20 18:11

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S21	83	("2403692" "2975307" "3304446" "3381623" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4651564" "4654546" "4756508" "4786472" "4821999" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5192197" "5206557" "5212993" "5219278" "5224843" "5244537" "5322258" "5323999" "5441597" "5452878" "5499909" "5541465" "5552654" "5571401" "5642015" "5683159" "5725363" "5759014" "5759015" "5798600" "5836750" "5863708" "5901939" "5911872" "5961298" "6106245" "6179586" "6184607" "6184697" "6215221" "6382228").PN. OR ("6758107").URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/20 18:27

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S24	554	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insul\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:23
S25	344	S24 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:24
S26	789	((micropump or micro-pump or pump) with substrate).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S27	527	S26 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S28	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:42
S29	51	("3243181" "3405977" "3414331" "3422411" "3437335" "3550964" "3918706" "4493548" "4577854" "4618292" "4874273" "5284179" "5497987" "5634636" "5897097").PN. OR ("6032923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:44
S30	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:49
S31	1	"5705018".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51
S32	1	"6007309".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51

S33	80	({"2403692" "2975307" "3304446" "3381623" "3414010" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4418886" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4581624" "4651564" "4654546" "4722360" "4756508" "4821999" "4898200" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5206557" "5219278" "5224843" "5244527" "5244537" "5322258" "5323999" "5325880" "5441597" "5452878" "5499909" "5541465" "5552654" "5571401" "5642015" "5683159" "5725363" "5759014" "5759015" "5822170" "5836750" "5863708" "5901939" "5911872" "5954079" "6106245" "6179586" "6182941" "6184607" "6192197" "6215221" "6240944" "6288472").PN. OR ("6968862").URPN.	US-PGPUB; USPAT; USOOR	OR	OFF	2009/05/21 12:53
S34	2	"6837476".pn.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 14:10

S35	91	({"2403692" "2975307" "3304446" "3381623" "3414010" "3641373" "3769531" "3803424" "3947644" "4115036" "4140936" "4197737" "4418886" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4581624" "4651564" "4654546" "4722360" "4756508" "4821999" "4898200" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581" "5082242" "5085562" "5096388" "5129794" "5148074" "5171132" "5176358" "5180288" "5180623" "5192197" "5206557" "5219278" "5224843" "5244527" "5244537" "5322258" "5323999" "5325880" "5441597" "5452878" "5499909" "5541465" "5552654" "5571401" "5642015" "5683159" "5725363" "5759014" "5759015" "5822170" "5836750" "5863708" "5901939" "5911872" "5954079" "6106245" "6179586" "6182941" "6184607" "6215221" "6288472"), PN. OR ("6837476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 18:16
S36	14	("5367878" "5705018" "6007309" "6032923" "6106245" "6767190" "6837476").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/02 18:40
S37	177	ST:microelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/02 22:08
S38	75	S37 and @ad<"20021125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:08
S39	78170	(pump or valve) and membrane and @ad<"20021125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:10

S40	93534	(pump or valve) and membrane and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:11
S41	7038	S40 and substrate and (cavity opening hollow) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:13
S42	378	S41 and (membrane and (conductive or metal) and (cavity opening)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 22:18
S43	674	257/e21.495.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S44	4	S43 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:07
S45	85	cabuz.in. and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/02 23:54
S46	225	347/112.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/02 23:57
S47	471	137/613.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:01
S48	253	("2403692" "2975307" "20020078756" "20020174706" "20030005774" "20030019299" "20030033884" "20030189809" "20030205090" "20030234376" "20040035211" "20040060360" "20040055651" "3304446" "3381623" "3414010" "3641373" "3769531" "3803424" "3947644" "3993939" "4115036" "4140936" "4197737" "4360955" "4418886" "4453169" "4478076" "4478077" "4498850" "4501144" "4539575" "4576050" "4581624" "4585209" "4619438" "4651564" "4654546" "4722360" "4756508" "4821999" "4829826" "4898200" "4911616" "4938742" "4939405" "5065978" "5069419" "5078581"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/03 00:08

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S49	22988	(micropump or micro-pump valve) and (cavity vacuum opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:30
S50	18510	(micropump or micro-pump valve) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:30
S51	5448	S50 and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:31
S52	5238	S51 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:32
S53	5115	S52 and (conductive metal)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:33

S54	297	S53 and (membrane and (conductive or metal) and (cavity opening hollow)). clm.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:35
S55	2495	S53 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:35
S56	231	S54 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:36
S57	53	S53 and (membrane with (conductive or metal) with (cavity opening hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:36
S58	28	S57 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 00:37
S59	6395	(micropump or micro-pump valve) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:05
S60	6089	S59 and (fluid liquid)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:06
S61	1553	S60 and (first with second with (opening cavity hollow))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S62	771	S61 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 10:07
S63	79	("3381623" "3803424" "4115036" "4453169" "4498850" "4938742" "5078581" "5096388" "5176358" "5180288" "5192197" "5499909" "5725363" "5759014" "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 10:35
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S69	6395	(micropump or micro-pump valve mesopump meso \$1pump) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:18
S70	264	S69 and ((inlet outlet) near4 (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S71	75	S70 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:35
S72	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:42
S73	13	"0779436"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S74	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 12:44
S75	38	("3524031" "4821997" "4824073" "4943032" "4965415" "4966646" "5164558" "5177579" "5186001").PN. OR ("5367878").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:46
S76	45	("3168805" "3256686" "3739573" "3802462" "4170878" "4543788" "5197192" "5210817" "5268082" "5322258" "5325880" "5344117" "5367878").PN. OR ("5671905").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/03 12:52

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S81	6395	(micropump or micro-pump valve mesopump meso \$1pump) and (cavity opening hollow) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and (membrane diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 14:57
S82	871	S81 and ((opening) near4 (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 14:57
S83	15	S81 and (((opening) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:00
S84	0	S81 and (((vent) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:03
S85	0	S81 and (((duct) near4 (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:03
S86	1025	S81 and ((opening) with (smaller bigger larger))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:35
S87	44	S81 and (((opening) with (smaller bigger larger)) with first with second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:36
S88	8	S81 and (((opening) with (smaller bigger larger)) with first with second).clrn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 15:41
S89	573	S81 and ((opening duct) same (smaller bigger larger) same (fluid liquid) same flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:49
S90	26	S81 and ((opening duct) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:50
S91	19	S81 and ((inlet outlet) with (smaller bigger larger) with (fluid liquid) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:54
S92	9	S81 and ((inlet outlet) with (different) with (size) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 16:57

S93	2	S81 and ((opening duct) with (different) with (size) with flow)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:00
S94	83	S81 and ((opening duct) with (different) with (size))	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:01
S95	0	251/129/01.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:05
S96	429	251/129.01.ccls. and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/03 17:06

11/3/2009 9:30:23 PM

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